

# WELCOME TO THE WORLD OF CHEMISTRY.

PURE HYDROGEN THAT HAS ABSORBED  
STARLIGHT IN THE EAGLE NEBULA.

# WHAT IS CHEMISTRY

- Generally speaking, the science of chemistry is the science of matter and the changes it undergoes.





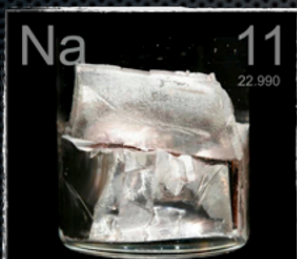
## **“MIXTURES VS. SUBSTANCES”**

- In chemistry, matter is found as either a pure substance or a mixture.
- Substances are comprised of elements or compounds
- Mixtures, on the other hand, are classified as solutions, homogeneous mixtures or heterogeneous mixtures.

# PURE SUBSTANCES

WHAT IS THE DIFFERENCE BETWEEN A PURE SUBSTANCE AND A COMPOUND?

- When all the particles are made of the same substance, you have a pure substance.
- Pure substances are found as elements or as compounds.
- Elements cannot be broken down further, whereas compounds are pure substances that contain 2 or more different elements which are represented by a chemical formula.



PURE SODIUM & CHLORINE

